=> d his

L1 L2 L3

(FILE 'HOME' ENTERED AT 14:52:45 ON 23 MAR 1998)

| FILE 'FSTA | A, WPIDS, USPATFULL' ENTERED AT 14:53:07 ON 23 MAR 1998 |
|------------|--|
| 39 | 9 S (MILK? OR DAIRY) (100A) (((OMEGA OR W) (W)3) (2A) (FATTY(W)A |
| 38 | B DUPLICATE REMOVE L1 (1 DUPLICATE REMOVED) |
| 23 | 3 S (MILK? OR DAIRY) (15A) (((OMEGA OR W) (W)3) (2A) (FATTY(W)AC |

```
=> s 5698244/pn or 5656319/pn or 5340594/pn or 5130242/pn or 5340742/pn or 5518918/pn or 5688500/pn
             1 5698244/PN
             1 5656319/PN
             1 5340594/PN
             1 5130242/PN
             1 5340742/PN
             1 5518918/PN
             1 5688500/PN
             7 5698244/PN OR 5656319/PN OR 5340594/PN OR 5130242/PN OR 534
074
               2/PN OR 5518918/PN OR 5688500/PN
=> s milk?/cl
*WARNING* - FIELD CODE NOT VALID 'CL'
             0 MILK?/CL
=> s milk?/cls
             0 MILK?/CLS
=> s milk?/claims
*WARNING* - FIELD CODE NOT VALID 'CLAIMS'
             0 MILK?/CLAIMS
=> s milk? or cow? or sheep or goat# or bison# or buffalo? or antelope# or deer# or camel?
         32665 MILK?
         16918 COW?
         11033 SHEEP
          8921 GOAT#
           107 BISON#
          1883 BUFFALO?
            97 ANTELOPE#
          2090 DEER#
          1700 CAMEL?
L6
         61207 MILK? OR COW? OR SHEEP OR GOAT# OR BISON# OR BUFFALO? OR AN
TEL
               OPE# OR DEER# OR CAMEL?
=> s 16 and 12
L7
             1 L6 AND L2
```

1. 5,698,244, Dec. 16, 1997, Method for raising animals having high concentrations of omega-3 highly unsaturated fatty acids; William R.

Barclay, 426/2, 53, 635, 807 [IMAGE AVAILABLE]

=> d

```
ANSWER 1 OF 1 CAPLUS COPYRIGHT 1998 ACS
L27
     1989:532569 CAPLUS
DN
     111:132569
ΤI
     Manufacture of .OMEGA.-3 lipids by eukaryotic marine microorganisms.
    Long, Thomas Veach, II
IN
PA
    Maricultura, Inc., USA
     PCT Int. Appl., 14 pp.
so
     CODEN: PIXXD2
     WO 8900606 A1 890126
PΤ
DS
        AU, BB, BG, BR, DK, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO,
         SD, SU, US
     RW: AT, BE, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL,
         SE, SN, TD, TG
     WO 88-US2483 880720
PRAI US 87-75662 870720
DT
     Patent
LΑ
     English
     ICM C12P007-64
IC
     ICS C09F005-02; A61K007-00
     16-2 (Fermentation and Bioindustrial Chemistry)
     Section cross-reference(s): 17, 62, 63
     .omega.-3 (N-3) fatty acids are manufd. by heterotrophically
AB
     culturing obligate and facultative marine eukaryotic microorganism.
     Thraustochytrids were cultured in a saline culture medium
     contg. glucose 1.0-5.0 and yeast ext. 0.1 g in 100 mL aged seawater, pH 7-7.5, with shaking, for 2 wks at 25-28.degree.. The cells were
     harvested by centrifugation or freeze drying, extd. with
     MeOH/CHCl3/H2O (2:1:0.8) for 0.5-3 h, and again extd. by the addn.
     of CHCl3 and H2O to give MeOH/CHCl3/H2O = 2:2:1.8 and a CHCl3 ext.
     of fatty acids contg. up to 10-50% .omega.-3 fatty acids was
     obtained.
     fatty acid heterotropic fermn thraustochytrid; yeast fatty
     acid heterotropic fermn; microalgae fatty acid fermn; fungi fatty
     acid fermn; marine eukaryote microorganism fatty acid
IT
     Yeast
        (halophilic marine, .omega.-3 fatty acids manuf. with)
IT
     Cosmetics
     Pharmaceuticals
        (manuf. of .omega.-3 fatty acids for, with eukaryotic marine
        microorganisms)
IT
     Fermentation
        (.omega.-3 fatty acid, with marine eukaryotic microorganism)
IT
     Feed
        (.omega.-3 fatty acids as additive for , manuf. with marine
        eukaryotic microorganisms for)
IT
        (.omega.-3 fatty acids for , manuf. with marine eukaryotic
        microorganisms of)
TT
     Thraustochytrium
        (.omega.-3 fatty acids manuf. with)
IT
     Fungi
        (marine, lower halophilic, .omega.-3 fatty acids manuf. with)
IT
     Fatty acids, preparation
     RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP
     (Preparation)
        (polyunsatd., n-3, manuf. of, with eukaryotic marine
        microorganisms)
```

- L11 ANSWER 1 OF 1 FSTA COPYRIGHT 1998 IFIS
- AN 88(12):P0056 FSTA FS FSTA
- TI [Studies on transfer of .omega.-3 fatty acids into bovine milk fat.]

 Zum Transfer von Omega-3-Fettsauren in das Milchfett bei Kuhen.
- AU Hagemeister, H.; Precht, D.; Barth, C. A.
- CS Inst. fur Physiol. und Biochem. der Ernahrung, Bundesanstalt fur Milchforschung, Kiel, Federal Republic of Germany
- SO Milchwissenschaft, (1987) 43 (3) 153, 155-158, 20 ref. ISSN: 0026-3788.
- DT Journal
- LA German SL English
- AB A milk fat enriched with .omega.-3 fatty acids may be of interest for the prevention of cardiovascular disease. There has been controversy over whether and, if so, how much of the long-chain polyunsaturated .omega.-3 fatty acids in marine oils can be utilized by the bovine mammary gland for milk fat synthesis, even if they are protected from biohydrogenation by rumen microflora. 2 lactating cows received infusions of 220-420 g menhaden oil/day for 28 and 43 days, resp. The mean depression of milk fat and protein content was 0.5 and <0.2%, resp.; 35-40% of the infused .omega.-3 fatty acids were transferred to milk fat. Trans fatty acid content of C18-isomers was never >5% by wt. It is concluded that a surprisingly efficient transfer of long-chain polyunsaturated fatty acids of marine oils into bovine milk fat is possible. (PDW)
- CC P (Milk and Dairy Products)
- IT Oils fish; milk fats, fish oils and .omega.-3 fatty acids
- IT Fatty acids; milk fats, fish oils and .omega.-3 fatty
 acids in
- IT Fats milk; milk fats, fish oils and .omega.-3 fatty acids
 in
- IT Dairy products

```
ANSWER 1 OF 1 CAPLUS COPYRIGHT 1998 ACS
L25
AN
     1969:410511 CAPLUS
DN
     71:10511
TΙ
     Polyunsaturated fatty acids of aquatic fungi: possible phylogenetic
     significance
AU
     Ellenbogen, Barbara B.; Aaronson, S.; Goldstein, S.;
     Belsky, M.
CS
     Haskins Lab., New York, N. Y., USA
     Comp. Biochem. Physiol. (1969), 29(2), 805-11
     CODEN: CBCPAI
DТ
     Journal
LΑ
     English
CC
     8 (Microbial Biochemistry)
     Fatty acids of four marine fungi Thraustochytrium roseum,
AB
     T. aureum, Schizochytrium aggregatum, and Dermocystidium
     species and one freshwater fungus Phlyctochytrium punctatum were
     detd. These fungi synthesized .omega. 3 and .omega. 6 polyunsatd.
     fatty acids. They contained large quantities of C20 and C22
     polyenes, and three of the marine fungi contained unusually large
     amts. of C22:6 fatty acid. Major fatty acids for T. roseum and S.
     aggregatum were palmitic, oleic, and docosahexaenoic acids; for T.
     aureum, palmitic, docosapentaenoic, and docosahexaenoic acids; for
     Dermocystidium, palmitic, palmitoleic, and eicosadienoic acids; for
     P. punctatum, palmitic, stearic, oleic, and linoleic acids. The pattern of biosynthesis of polyunsatd. fatty by these aquatic fungi
     as well as their morphology supports the hypothesis that they
     evolved from a primitive phytoflagellate (monad) ancestor.
ST
     fungi unsatd fatty acids; fatty acids unsatd fungi; marine fungi
     fatty acids
IT
     Schizochytrium
        (aggregatum, fatty acids of, phylogeny in relation to)
IT
        (fatty acids of marine, phylogeny in relation to)
     Dermocystidium
     Thraustochytrium
        (fatty acids of, phylogeny in relation to)
IΤ
     Evolution
        (of fungi, unsatd. fatty acids in relation to)
TΤ
     Phlyctochytrium
        (punctatum, fatty acids of, phylogeny in relation to)
ΙT
     Fatty acids, biological studies
     RL: BIOL (Biological study)
     (unsatd., of fungi, phylogeny in relation to) 57-10-3, biological studies 57-11-4, biological studies
IT
                                                                     60-33-3,
     biological studies 112-80-1, biological studies
                                                            373-49-9
```

25448-01-5

25448-00-4

RL: BIOL (Biological study)

25167-62-8